

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.116

Serial Number: 09/801,221

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Title: Human Cord Blood as a Source of Neural Tissue for Repair of the Brain and Spinal Cord

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Amendments to the Claims:

The currently pending and amended claims are below. Please amend the claims following wherein deleted material is indicated by strikethrough or double brackets and wherein the added matter is shown by underlining.

Listing of Claims:

Claims 1-89 (cancelled)

90. (currently amended) The method of claim ~~[[124]]~~ 125, wherein retinoic acid is selected from the group consisting of 9-cis retinoic acid, all transretinoic acid and a mixture thereof.

Claims 91-124 (canceled)

125. (new) A method of producing an isolated, differentiated, mononuclear cell from human umbilical cord blood, comprising

- a) obtaining a cord blood fraction comprising mononuclear cells from said umbilical cord blood, wherein the mononuclear cells comprise progenitor cells;
- b) growing the mononuclear cells in a serum-free medium comprising EGF and bFGF to produce an enriched fraction of progenitor cells; and
- c) culturing the enriched fraction of progenitor cells in a culture medium containing an effective amount of retinoic acid and NGF for a period sufficient to differentiate the progenitor cells bearing neural progenitor markers.